



Title: SELF-ALIGNING PEPTIDES
 MODELED ON HUMAN ELASTIN
 AND OTHER FIBROUS PROTEINS
 Inventor(s): Aser ROTHSTEIN et al.
 Appl. No.: 09/964,662

FIG. 1A

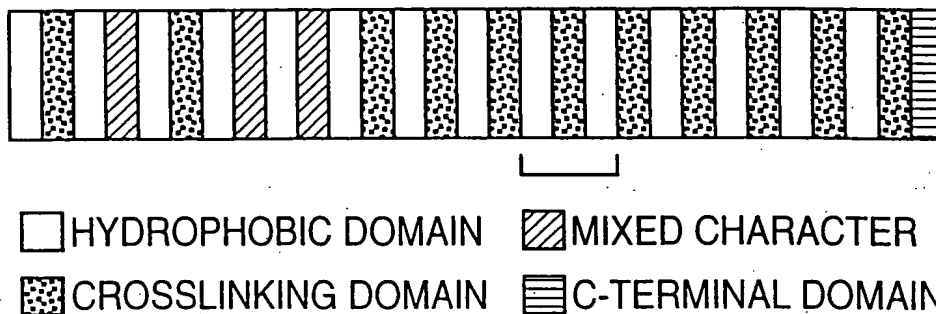


FIG. 1B

1	11	21	31	41	51
GGVPGAIPGG	VPGGVFYPGA	GLGALGGGAL	GPGGKPLKPV	PGLLAGAGLG	AGLGAFPAVT
FPGALVPGGV	ADAAAAYKAA	KAGAGLGGVP	GVGGLGVSAG	AVVPQPGAGV	KPGKVPVGVGL
PGVYPGGVLP	GARFPGVGV	PGVPTGAGVK	PKAPGVGGAF	AGIPGVGPFG	GPQPGVPLGY
PIKAPKLPGG	YGLPYTTGKL	PYGYGPGGVA	GAAGKAGYPT	GTGVGPQAAA	AAAAKAAKF
GAGAAGVLP	VGGAGVPGVP	GAIPGIGGIA	GVGTPAAAAA	AAAAKAAKY	GAAAGLVP
PGFPGVGV	PGAGVPGV	PGAGIPVVP	AGIPGAAPV	VVSPEAAAA	AKAAKYGAR
PGVGVGGIPT	YGVGAGGFPG	FGVGVGGIPG	VAGVPSVGGV	PGVGGVPGV	ISPFAQAAAA
AKAAKYGVGT	AAAAAKAAA	KAAQFGLVPG	VGVAPGVGVA	PGVGVAPGV	LAPGVGVAPG
VGVAPGVGVA	PGIGPGGVAA	AAKSAKVAA	KAQLRAAGL	GAGIPGLGV	VGVPLGVGA
GVPGLGVGAG	VPFGAGADE	GVRRSLPEL	REGDPSSSQH	LPSTPSSPRV	PGALAAAKAA
KYGAAPVGV	GGLGALGGVG	IPGGVVGAG	AAAAAAKAA	AKAAQFGLV	AAGLGGGLVG
GLGVPGVGG	GGIPAAAAK	AAKYGAAGL	GGVLGGAGQFP	LGGVAARPGF	GLSPIFPGGA
CLGKACGRKR	K				

FIG. 1C

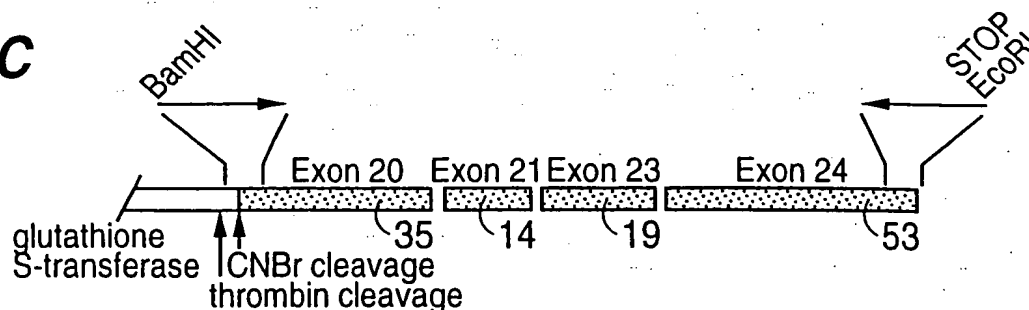
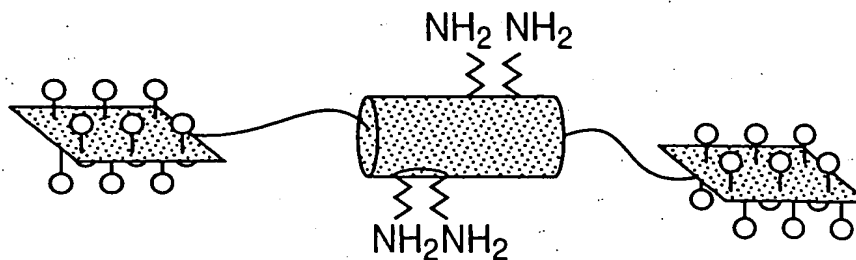


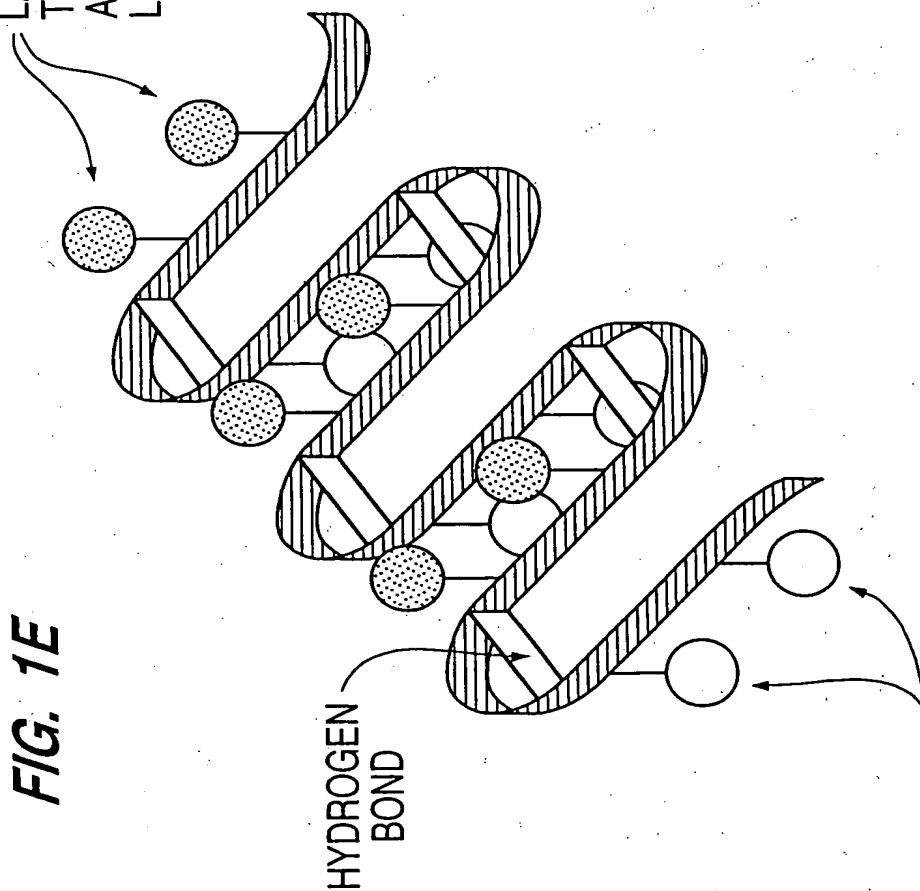
FIG. 1D



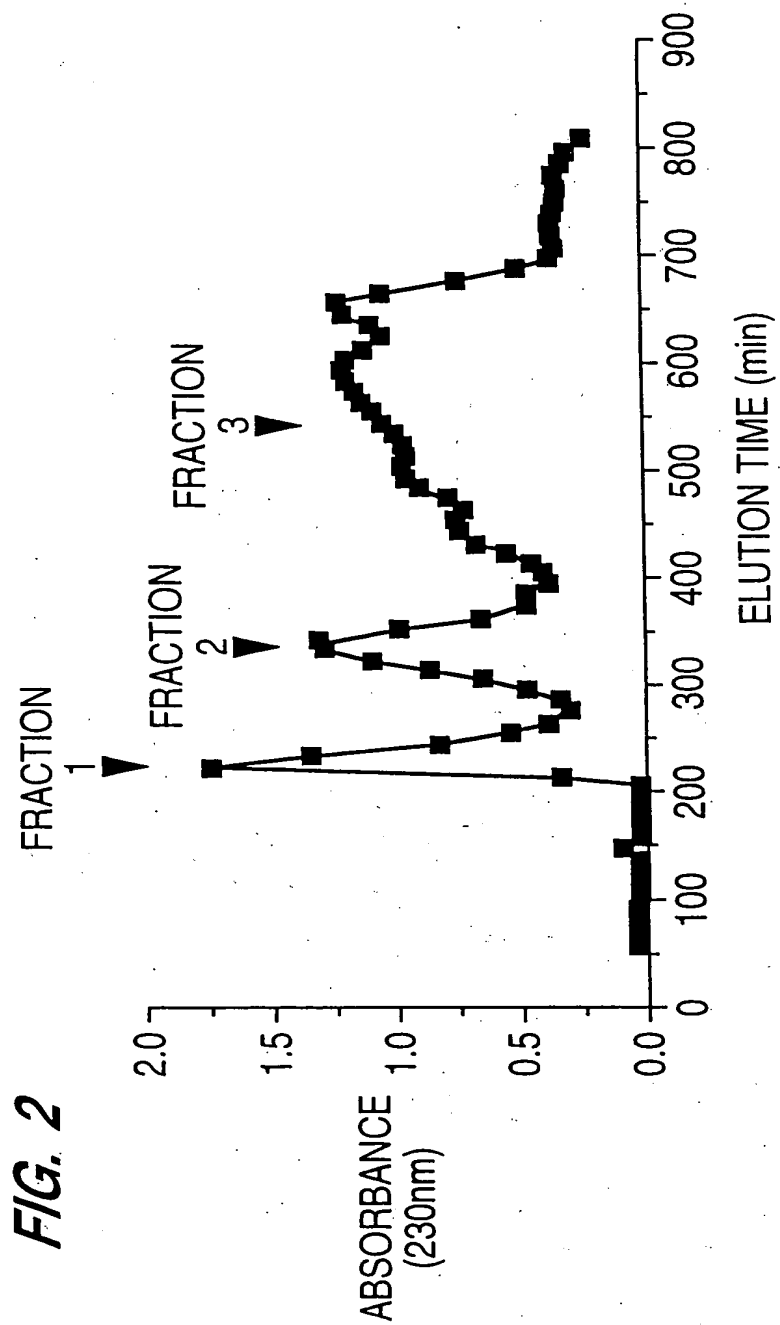


LARGE HYDROPHOBIC SIDE CHAINS ABOVE
THE PLANE OF THE BETA-SHEET (EG.
ALANINE, VALINE, ISOLEUCINE,
LEUCINE, TYROSINE, PHENYLALANINE)

FIG. 1E



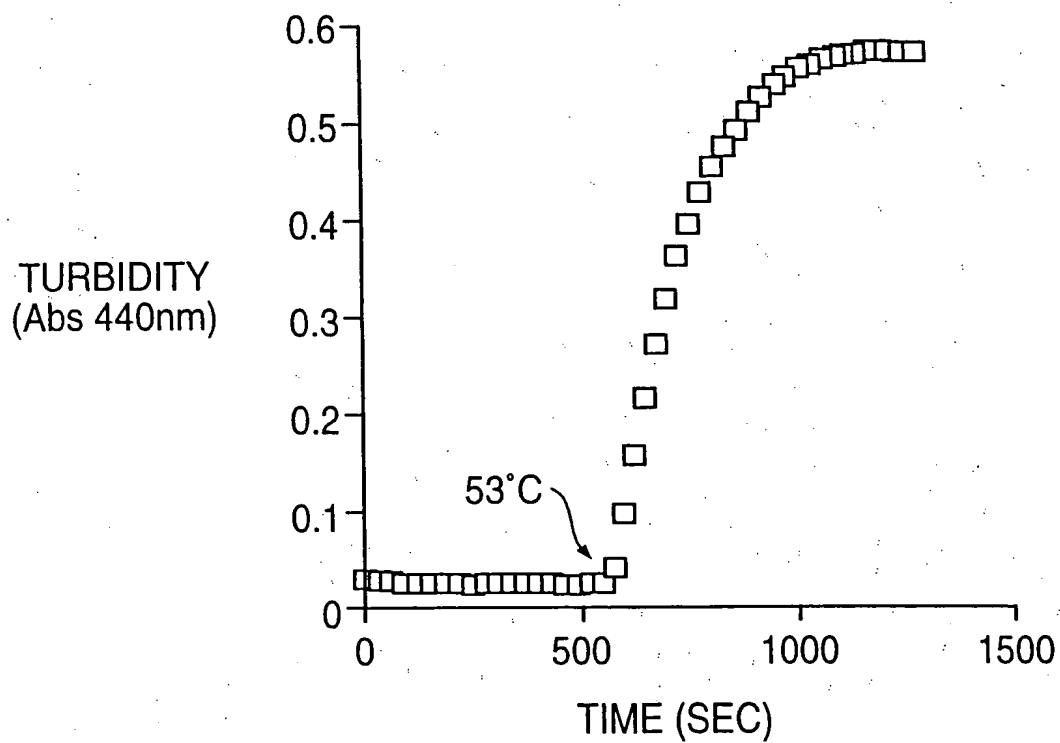
LARGE HYDROPHOBIC SIDE CHAINS BELOW
THE PLANE OF THE BETA-SHEET (EG.
ALANINE, VALINE, ISOLEUCINE,
LEUCINE, TYROSINE, PHENYLALANINE)





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FIG. 3



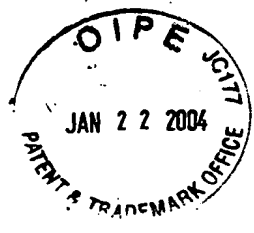


FIG. 4A

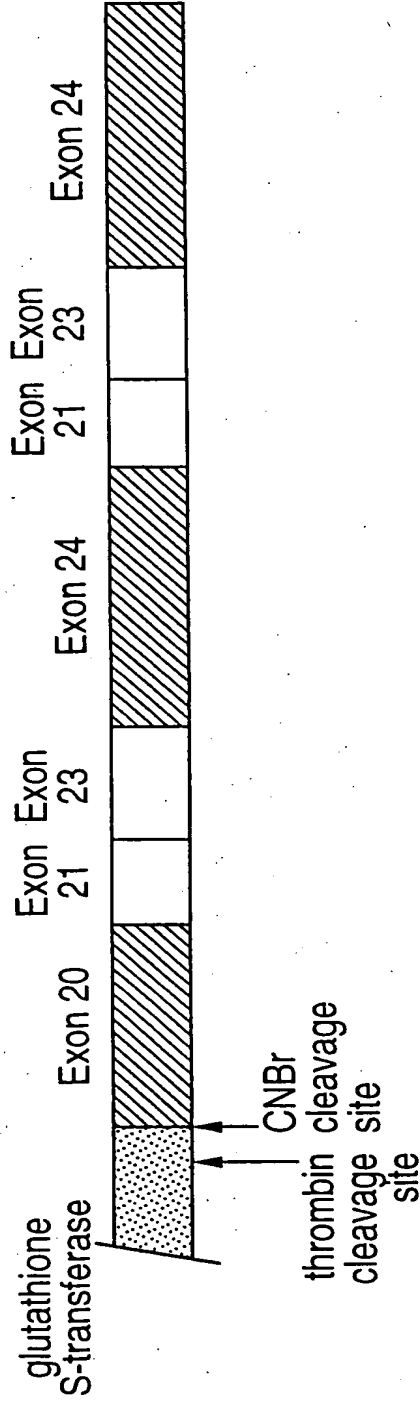


FIG. 4B

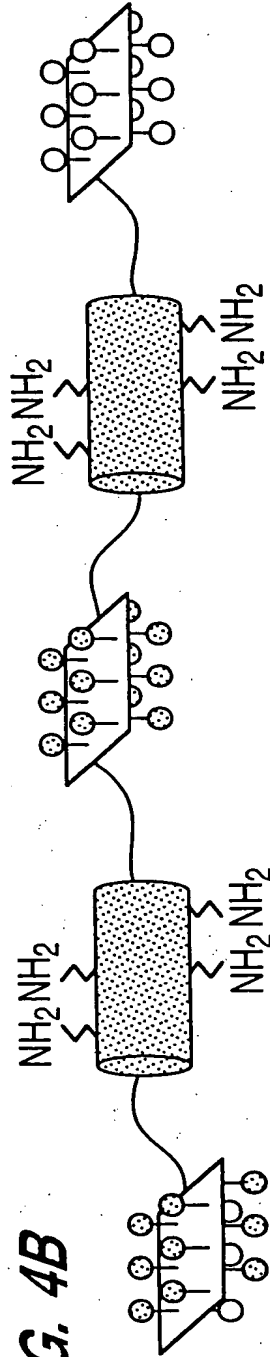


FIG. 4C

FPGFGVGVG IPGVAGVPGV GGVPGVGGVP GVGISPEAQ AAKAAKYG
 VGTAAAAAK AAKAAQFGL VPGVGVAPGV GVAPGVGVAP GVGLAPGVGV
 APGVGVAPGV GVAPAIGP E AAAAAAKAA KYGVGTAAA AAKAAKAAQ
 FGLVPGVGV PGGVGVAPGV VAPGVGLAPG VGVAPGVGV PGGVAPAIG P



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FIGURE 5A

PGFGVGVGGI	PGVAGVPGVG	GVPGVGGVPG	VGISPEAQAA
AAAKAAKYGV	GTPAAAAAKA	AAKAAQFGLV	PGVGVAPGVG
VAPGVGVAPG	VGLAPGVGVA	PGVGVAPGVG	VAPAIGP

FIGURE 5B

FPGFGVGVGG	IPGVAGVPGV	GGVPGVGGVP	GVGISPEAQA
AAAAKAAKYG	VGTPAAAAAK	AAKAAQFGL	VPVGVAPGV
GVAPGVGVAP	GVGLAPGVGV	APGVGVAPGV	GVAPAIGP

FIGURE 5C

PGFGVGVGGI	PGVAGVPGVG	GVPGVGGVPG	VGISPEAQAA
AAAKAAKYGV	GTPAAAAAKA	AAKAAQFGLV	PGVGVAPGVG
VAPGVGVAPG	VGLAPGVGVA	PGVGVAPGVG	VAPAIGPEAQ
AAAAKAAKY	GVGTPAAAAA	KAAKAAQFG	LVPGVGVAPG
VGVAPGVGVA	PGVGLAPGVG	VAPGVGVAPG	VGVAPAIGP